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Fort Bliss, TX – Fact Sheet

Fort Bliss Fact Sheet

Fort Bliss, Texas, August 8, 2011: Fort Bliss has been designated by the Army as a Pilot Integrated Net Zero Installation to achieve net zero status in Energy, Water, and Waste by 2020. Fort Bliss aims to achieve Net Zero Energy by 2015 to be followed by Net Zero Water and Waste by 2018. This program is the tip of the spear for the Army push to become energy, water, and waste efficient and secure across its infrastructure.

The following facts are meant to provide background and technical data on Fort Bliss to interested respondents to the Fort Bliss Requests for Information on Energy, Water, and Waste Net Zero technologies and processes.

MISSION: Team Bliss sustains, prepares, resets and transforms members of the Joint team to mobilize and deploy in support of the national military strategy, while providing for the well-being of the regional military community.

VISION: Our vision for the future of Fort Bliss is one in which the post is recognized as DoD's premiere training, testing, and power projection platform; comprised of world class training areas, ranges, and facilities. An installation led by adaptive, innovative, and warrior focused professionals that foster an environment that promotes individual and unit readiness, leader development, the exploration of technologies, holistic well-being, and offers a high quality of life. The most important part of our vision is creating a place where Soldiers, Families, and Civilians are proud to live and work.

TOP PRIORITIES:

For Release August 8, 2011

Providing Quality of Life:

Providing Soldiers, Families, and Civilians with a quality of life equal to the service and sacrifice they make for their country

Providing Health Care and Well-Being:

Providing Soldiers, Families, and military retirees with access to quality medical and dental treatment

Maintaining a High Level of Readiness and Training:

Training Soldiers, sustaining the combat readiness of units, and preparing Soldiers and Families for any possible contingency

Creating Required Facilities and Infrastructure:

Building and maintaining the capabilities to meet administrative, operational, training, and Soldier requirements

INTERESTING FACTS:*Soldier and Family Care Center:*

- 140,000 square feet, built on 14 acres with more than 800 available parking spaces
- Approximately 35,000 patients per year
- Full service primary care facility, with primary care physicians and ancillary staff as well as a pharmacy, lab, physical therapy, radiology, behavioral health, ophthalmology and preventative medicine, dermatology and aviation medicine
- Designed to Environmental Design silver standards

Wounded Warrior Battalion

- \$56 million complex, consisting of three buildings (barracks, admin building, activity center)
- Will house 232 wounded warriors
- Funded by stimulus money under the American Recovery and Reinvestment Act

Dental Clinic

- Major design-build Medical Military construction projects in support of BRAC
- 33,580 square foot clinic with 64 treatment rooms
- Staffs approximately 150 military, civilian and contract service providers
- State of the art equipment, from digital x-ray systems to centralized sterilization

USO/FirstLight Credit Union:

- 6,300 square foot facility, on East Bliss

- Budget: \$3.5 million / USO has received app. \$1.5 million in donated facilities and services
- Programs offered include: United Through Reading® Military Program, USO Operation Phone Home® and Operation Enduring Care

Freedom Crossing:

- 517,000 square foot center, set on 53 acres – opening Fall 2010
- Includes national name-brand retail stores, dining, 10-screen multi-plex movie theatre
- First of its kind for any Army installation
- Will create approximately 900 jobs for civilians
- 5 percent of parking spot dedicated for “low emitting and fuel efficient” vehicles

Army/Fort Bliss Growth:

- 2005: 10,000 Soldiers → 2012: 34,000 Soldiers due to BRAC realignment
- Air Defense Artillery School moves to Fort Sill, Okla.
- 1st Armored Division HHQ moves to Fort Bliss by 2012
- Renovations with the Officers’ Club into a family readiness center
- RV Park’s expansion from 64 to 124 spaces, and renovations to the Rod and Gun Club
- MWR: six more CYSS centers in construction: youth center, wing addition to the child care hourly, wing addition to Stout Physical Fitness Center, two medium-sized child development centers and a large child development center at East Bliss
- FMWR: construction underway for a 90,000 square foot fitness center at East Fort Bliss

Real Property:

- Total Acreage: 1,120,000
- Maneuver Acreage: 1,007,000
- Total Building GSF (less housing); 24,827,418
 - Permanent GSF: 20,661,133
 - Semi-Perm GSF: 1,843,344
 - Temp GSF: 1,239,856
 - Relocatable GSF: 1,103,529
- Family Housing GSF: 6,945,433
- Family Housing Units: 3,255
- Family Housing (Families): 3,899
- 2016 Estimated GSF (less family housing): 31,000,000

Energy Services:

- Electrical Service
 - Servicing Electric Public Utility: El Paso Electric (<http://www.epelectric.com/>)
 - Privatized Utility Partners on Fort Bliss:
 - Electric Distribution Infrastructure: Rio Grande Electric COOP (<http://www.rgec.com/>)
 - Fort Bliss Electricity Consumption in FY2010:
 - 30 to 40 MW base load, 65.8 MW maximum peak load in FY 2010
 - Fort Bliss Main Post, Biggs Army Airfield, and East Bliss utility costs in Texas under the Public Utility Commission of Texas (PUCT) via Firm Rate Schedule 31, Fixed Fuel Charge schedule 98, and Fort Bliss 20% discount Schedule 95
 - Training ranges and base camps utility costs in New Mexico under the Public Regulatory Commission of New Mexico (PRCNM) via Dona Ana and Oro Grande Schedule 4, and McGregor Schedule 9
 - Projected electrical consumption in 2015: 80 MW base load, 130 MW maximum peak load, and 500,000 MWhr (annual energy consumption)
- Natural Gas Service
 - Servicing Natural Gas Public Utility: Texas Gas Service (<http://www.texasgasservice.com/>)
 - Privatized Utility Partners on Fort Bliss:
 - Natural Gas Distribution Infrastructure: Texas Gas Service (<http://www.texasgasservice.com/>)

Fort Bliss Energy Consumption

	Unit	FY 2007 Use	FY 2008 Use	FY 2009 Use	FY 2010 Use	Current Blended Rate or Operating Cost (FY10)	Unit
Site Purchased Electricity	MWh	214,574	247,750	277,127	312,583	0.06	\$/kWh
Site Purchased Natural Gas	MMBtu	789,329	769,522	662,111	900,824	5.39	\$/MMBtu
Site Purchased Fuels (Diesel, JP8, Gasoline)	Gal	<i>Not Avail.</i>	10,600	62,500	50,600	2.9	\$/gal

more

Water Utility Service:

- Servicing Water Public Utility: El Paso Water Utilities (<http://www.epwu.org/>)
- Privatized Utility Partners on Fort Bliss:
 - Water/Waste Water Distribution Infrastructure: Fort Bliss Water Utilities (1320 Doniphan Road Fort Bliss, TX 79906, (915) 568-7172)
- Fort Bliss Water Consumption:

Water Supply and Consumption

Potable Water Supply	Potable water comes from a series of wells (38 total)
	The total water supply available to Fort Bliss is 20 million gallons per day (mgd), consisting of approximately 15.8 mgd from on-post sources and 4.24 mgd from the city of El Paso
	Recent usage has been approximately 88 percent of water from post wells and 12 percent from El Paso Water Utilities (EPWU) purchases
Consumption	The total water demand projections for Fort Bliss Main Post and the Biggs Army Airfield (AAF) in 2015 are a combined 5.15 mgd for average day demand, and 10.23 mgd for maximum day demand (based on the 2009 Capital Improvements and Renewals and Replacement Plan [CIRRP])
	Based on billing data, the residential areas operated by Balfour-Beatty account for the largest water use at Fort Bliss
	Many of the buildings in the main cantonment area have localized areas of landscaping that require watering. This outdoor water use is not metered or tracked, but it could be substantial during summer months

Fort Bliss Water Use Data

	Supply Type Used? Y/N	Water Rate* / Production Costs (\$/Kgal)	Wastewater Rate* / Production Costs (\$/Kgal)	FY2007 Use (Kgal)	FY2008 Use (Kgal)	FY2009 Use (Kgal)	FY2010 Use (Kgal)
Purchased Potable	Y	0.98	1.7	84,763	103,459	539,778	235,893
Purchased Non-Potable	N	N/A	N/A	N/A	N/A	N/A	N/A
Onsite Produced Potable	Y	N/A	N/A	1,559,037	1,528,541	1,330,622	1,365,444
Onsite Produced Non-Potable	Y	N/A	N/A	Not Available	Not Available	Not Available	424,367

- * Blended/Average Rate

Natural features of the post include the following¹:

- Soils. The general categories of soil types are valleys and basin floors, and mountains, mountain foot slopes, and escarpments.
- Valley and basins are shallow to deep, nearly level to very steep, with well-drained soils.
- Basin floors are covered by coppice dunes and eolian sheet deposits.
- Land. Major plant community types on Fort Bliss are Chihuahuan Desert Scrub, Desert Grasslands, and Montane Coniferous and Mixed Woodland Forests.

¹ Draft Fort Bliss Energy and Water Master Plan, 2010.

- Water. Hueco Bolson aquifer supplies the main cantonment and various range areas. The dominant perennial surface water feature is the Rio Grande.
- Fort Bliss falls in Climate Zone 5, which is defined as having 2,000 cooling degree days (CDDs) or more, and less than 4,000 heating degree days (HDDs).
- Average rainfall per year: 8.66 inches
- Prevailing wind directions:
 - Winter. Wind direction is generally from the north, but it starts to shift to the west in February.
 - Spring. Winds are primarily from the west. The average magnitude is greatest during spring.
 - Summer. Winds come predominantly from the southeast.
 - Fall. Winds are varied, coming from the south, the east, and the north.

Waste Management Utility Service:

- Fort Bliss Waste Management:
 - Waste collection by El Paso Environmental Services
(http://www.elpasotexas.gov/environmental_services/)

Annual Solid Waste Data

Date	FY2006	FY2007	FY2008	FY2009	FY2010
Municipal Solid Waste Disposal (tons)	12308	35046	20624	18529	13056

Solid Waste Minimization Activities

Generated Waste Stream	FY2006 (tons)	FY2007 (tons)	FY2008 (tons)	FY2009 (tons)	FY2010 (tons)	Average cost/year	Fee
Onsite Material Reuse	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Composting	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycled Products	-	-	-	-	-	-	-
Paper	-	-	-	-	-	-	-
Mixed Paper	92 Newspaper	42 Newspaper	83 Newspaper 11 Mixed Paper	664 Mixed Paper	491 Mixed Paper	-	-
Aluminum	1	24	-	19	13	-	-
Other Metals (specify)	N/A	N/A	2	8	34	-	-
Glass	N/A	N/A	N/A	N/A	N/A	N/A	-
Plastic	-	-	-	30	76	-	-
Other (specify)	19 Shredded 1085 Cardboard	1318 Cardboard	1171 Cardboard	38 Shredded 956 Cardboard	91 Shredded 951 Cardboard	-	-
Other Waste Diversion (specify)	1 Ink/Toner	5 Personal Electronics	8 Personal Electronics	N/A	11 Personal Electronics 14 Ink/Toner	-	-

Landfills Used and Landfills Located within 50 Miles of Fort Bliss

Landfill Name	On – or – Off Site	Landfill Address	Methane Recovery? (Y/N)	Landfill Constraints?
Fort Bliss Sanitary Landfill	On Site	Sanitary Landfill Rd, Fort Bliss, TX	N	Landfill expected to reach capacity in 2012
City of El Paso Clint Landfill	Off Site	2300 Darrington, Clint, TX	N	No known constraints
Camino Real Landfill	Off Site	1000 Camino Real Blvd, Sunland Park, NM	Y	-